



MESSAGE FROM THE SBARA BOARD

Mark your calendars for 6:00pm to 9:00pm **Thursday, December 11th** for a fun filled evening. That's the evening the SBARA board has decided to have a potluck for this year's holiday social. In discussing the choice of going to a restaurant or having a potluck at one of the member's homes, the majority opinion was that we would have more time to socialize if we were in a home free to move around rather than seated in a restaurant.

If you want to participate in the SBARA holiday dinner you need to let us know.

There are three ways to inform SBARA that you plan to attend.

1. Fill out the form included in this issue of the GroundPlane and mail it in by November 28th to the address on the form.
2. E-Mail Bill Artelt WB9YVM at hamradio@comcast.net by November 28th. Be sure to state the number of people in your party and include an evening contact telephone number.
3. Call Al Rendon WT6K at (510) 656-2427 by November 28th to sign up to come.

Or, you can sign up by coming to the November 19th SBARA meeting. There will be a sign-up sheet for you to

NOVEMBER 19TH SBARA MEETING PROGRAM.

It's a QRP evening at this SBARA meeting. You are invited to bring your QRP (low power) transmitter or transceiver to show the membership during the program. We will be discussing a QRP special event and social for all members to enjoy. Even if you do not have a QRP rig to show-off, come and be part of the special events planning discussion. Remember the

FILL OUT, MAIL TODAY - HOLIDAY DINNER SIGN-UP.

Cut out and Mail in by November 28th to:

Al Rendon, 201 Brunswick Pl., Fremont, CA 94539

Name: _____ Call: _____.

The Number attending in you Party: _____.

Your Evening Contact Telephone Number: _____.

What would you like to bring? _____.

SBARA ELECTIONS — LOOKING FOR A FEW GOOD OFFICERS

Elections.....Have you thought about being a member of the Club's Elected Officers?

Think about volunteering—only YOU can offer to the success of SBARA next year. Election of Officers will be conducted in January during our meeting.

Don't forget you can also nominate a fellow HAM !!!!

We will be accepting nominees for the following positions:

President Vice- President

Treasurer Secretary

Non-Elected positions are:

Newsletter Editor Membership Chairperson

FCC Approves Home-To-Cell Number Rule

By JONATHAN D. SALANT

The Associated Press

Monday, November 10, 2003

Federal regulators gave the go-ahead Monday for consumers to switch their home phone numbers to their cell phones.

The Federal Communications Commission said people will be able to transfer their numbers as long as their wireless coverage area overlaps the location of their conventional phone. The FCC also said it wants to allow people to transfer cell numbers to conventional phones but needs to gather more information first.

The new home-to-cell number rule takes effect Nov. 24, the same day wireless customers will be able to keep their numbers when they switch cell phone companies. The rules govern customers living in the 100 most populous metropolitan areas and take effect six months later for all others. "After today, it's easier than ever to cut the cord," FCC Chairman Michael Powell said. "By firmly endorsing a customer's right to untether themselves from the wire-line network -- and take their telephone number with them -- we act to eliminate impediments to competition between wireless and wire-line services."

Consumer advocates have long said that technological advances made it unnecessary for phone customers to have different home and cell numbers, and that they should be allowed to take their cell phone numbers with them when they change companies. "When we reduce the switching costs of going from one carrier to another, you're making the market more competitive," said Chris Murray, legislative counsel for Consumers Union, which publishes Consumer Reports magazine.

"There's both the economic cost of a new phone number -- having to print new business cards, having to potentially contact everyone who might have your phone number -- and massive inconvenience," he said."

73 MAGAZINE SAYS "73 AND QRT"

After completing 43 years of publication, 73 Amateur Radio Today magazine is calling it quits. Plans to publish a joint October/November issue fell through this week, and the September 2003 issue was the magazine's last. According to self-proclaimed "El Supremo and Founder" Wayne S. Green II, W2NSD, it was a simple matter of economics.

"After failing a last minute effort to collect on some larger accounts receivable we decided yesterday to throw in the towel--that the September issue will have to be the last," Green told ARRL October 9. "SK after 43 years of publishing."

The first issue of 73 was published in October 1960 from what Green--a former editor of CQ--once described as "a small, dingy apartment" in Brooklyn, New York. Since the summer of 1962, 73 has been based in Peterborough, New Hampshire--Green's home state. The magazine was a pioneer promoter of SSB, FM, solid-state, easy construction projects and the marriage of personal computing and Amateur Radio. His interest in microcomputing led Green in 1975 to found Byte, a magazine devoted to the then-nascent and largely do-it-yourself computer hobby.

QST Editor Steve Ford, WB8IMY, says 73 published his first article in the 1970s. "I was saddened to hear that 73 has ceased publishing," Ford said. "Wayne's excitement about the growing amateur FM repeater phenomenon at the time was infectious."

CQ Publisher Dick Ross, K2MGA, said he takes no joy from the passing of 73. "The loss of any publication serving Amateur Radio leaves all of us a bit poorer," he said. "Thank you, Wayne, for 43 entertaining, informative, sometimes infuriating, and always interesting years of 73. We'll genuinely miss it."

Best Offer Takes the Following Items:

1. Model 28 ASR Teletype (60 WPM) with stuntbox and I D wheel, runs well.
2. Teletype Model 14 Typing Reperf
3. Teletype Transmitter Distributor (60 WPM)
4. Teletype 120 VDC 60 ma power supply
5. Model 19 KSR Teletype (60 WPM). complete with TD and tape punch and table.
6. Other Teletype accessories and items will go with these items.

Contact Dennis Franklin K6DF at 510-791-0954



Pacificon Thoughts

William Artelt

SBARA Newsletter Editor

Attending the Pacificon this October I was treated to a true "E" ticket ride with the presentation by Dr. Chris Stall. He holds a PHD in AstroPhysics. Cliff Stoll An astronomer by training and a computer expert by accident Cliff Stoll has become a leading authority on computer security, an issue recognized everywhere.

Dr. Stall talked for about an hour discussing many topics including a Kleinbottle that was developed with Acme Glass Works. Dr. Stall developed this Kleinbottle to a height of 42 inches and weighs 35 pounds. Yes Virginia this borders on the 4th Dimension. He made Robin Williams look and talk very slow and if you look at his picture he looks like Alfred Einstein.

The Kingbridge Klein Bottle is 1.1 meter tall, 50 cm diameter, and is made of 15 Kg of clear Pyrex glass. (For non-scientists, that's 42 inches tall, 20 inches across, and 35 pounds)

With 6mm thick walls, it has the same smooth shape as Acme's [Classical Klein Bottle](#). One sided, boundless, and mathematically nonorientable. It tickles topologists and amazes visitors.

It's the size of a 5 year old child. A nontrivial glassblowing project. Indeed, I did this job. (One glass blower said,

Under the direction of Bob Maiden, giant Klein Bottle from Pyrex and work involved building specialized size, Bob and his assistants had to make adjustments and machine operations in a high

To make the top tube, we used 24 spe-
mm Pyrex tubing red hot. We then
pipe. The main, pear-shaped flask is
ing a special, wide-swing glass lathe.
precision of a millimeter -- all the while
suits. After assembling, welding, and
nealed at 1200 degrees F, to relieve



ferret can climb "into" it. It's been a very few glassblowing shops could handle "Too scary for us!")

Kildee Scientific Glass has built this Duran Borosilicate tubing. Much of the torches and shaping jig. Because of its carefully coordinate their hand movements in a temperature dance of glass.

cial oxy-acetylene torches to heat 90
bent a near-hairpin curve in the glass
blown from a 72 litre Pyrex blank, used.
The curved pieces must be welded to a
wearing flameproof aluminum pyro-
firepolishing, the Klein Bottle gets an
internal stress.

Mathematically, this is identical to our smaller Klein Bottles -- that is, topology does not care about changes in size. It's bigger than your average boundless thing. This is a Giant Klein Bottle, resulting in a delightful German oxymoron, *RiesenKLEINflasche* (Many thanks to Georg Moritz of Stuttgart-Korntal for helping make such a flavorful play on words!) To a mathematician, it's a one-sided bottle, homeomorphic to a disc with two crosscaps. To a glass worker, it's a major challenge in glassblowing. To the casual viewer, it's an accomplishment in art, glass, and mathematics.

***** LATEST NEWS: August 20, 2003 ... after almost two years of challenging glassblowing and repeated frustrations, the meter tall Klein Bottle is finished! -- YIPPEE!**



SOUTH BAY AMATEUR RADIO ASSOCIATION

Membership Renewal

Call _____ License class _____

Name _____

Address _____

Home phone _____ Work phone _____

e-mail address _____

Family members:

Name	Call	Class
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

Please circle one:

Senior	Student	Regular	Family
\$10.00	\$10.00	\$20.00	\$25.00

Make check out to SBARA and send with this form to: KG6HDS
Kortnee Feriante
36511 Alder Ct.
Fremont, CA 94536

Happy Thanksgiving !!!!!!!



SBARA Leadership Team

Treasurer

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Visit SBARA on the Internet at <http://www.qsl.net/sbara>
On the Air at 146.015/715

The Ground Plane

<http://www.qsl.net/sbara>

South Bay Amateur Radio Association—SBARA

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